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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,068	11/19/2003	Hui-Leng Lim	40116/03601	7235 .
30636 EAV KADI IIN	7590 02/05/2007 N & MARCIN, LLP	•	EXAMINER	
150 BROADW	VAY, SUITE 702	LE, DANH C		
NEW YORK,	NY 10038		ART UNIT PAPER NUMBER	
	•		2617	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	ONTHS	02/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	Application No. Applicant(s)				
		10/717,068	LIM ET AL.				
		Examiner	Art Unit				
		DANH C. LE	2617				
Pariod fo	The MAILING DATE of this communication a	ppears on the cover sheet	with the correspondence add	lress			
Period fo	• •		MONTHUS OF THEFTY (OF	N DAY 0			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by stature to received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN  1.136(a). In no event, however, may  d will apply and will expire SIX (6) Munte, cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this cor ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 14	November 2006	•	٠.			
2a)□		nis action is non-final.					
3)	Since this application is in condition for allow		atters, prosecution as to the	merits is			
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)	4)⊠ Claim(s) <u>1-17,20 and 21</u> is/are pending in the application.						
.,23	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
· —	6)⊠ Claim(s) <u>1-7,10-13,16,17,20,21</u> is/are rejected.						
·	Claim(s) 8,9,14 and 15 is/are objected to.						
8)□	Claim(s) are subject to restriction and	or election requirement.					
Applicat	ion Papers						
9) ☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:							
1. ☐ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
			. ·				
Attachmen	nt(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) 🔲 Notic							
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:							

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## **DETAILED ACTION**

## **SET I**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

# 1. Claims 1, 11, 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Kuisma (US 6,259,929).

As to claim 1, Kuisma inherently teaches an access point for wireless communication (figures 1-3, 5 and theirs description), comprising:

a housing (1) including at least one module receiving slot and a first wireless communication radio, the first radio communicating with a first wireless device utilizing a first frequency band (analogue); and

a removable module (modules are detachable) configured for insertion into the module receiving slot (230), the module including a second communication radio utilizing a second frequency band (digital)so that, when the removable module is inserted into the slot, the access point is capable of communicating with a second wireless device utilizing at least one of the first and second frequency bands.

As to claim 11, Kuisma teach a wireless access point (figures 1-3, 5 and their descriptions), comprising:

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a first module (2') including a first wireless communication radio communicating utilizing a first frequency band (analogue); and

a housing (1) including first and second receiving slots (modules are detachable), the first module being mounted in a first receiving slot of the housing, the second receiving slot being capable of receiving a second removable module, the second module including a second wireless radio communicating utilizing a second frequency band, wherein when the second module is inserted into the second slot, the access point is capable of communicating with a wireless device utilizing at least one of the first and second frequency bands.

As to claim 16, Kuisma teaches the wireless communication access point (figures 1-3, 5, and their descriptions), comprising:

a wireless radio communicating with a wireless device;

a housing (1) including at least one module receiving slot and housing the radio; and

at least one module (module are detachable) selectively insertable into and removable from the slot, the module including one of an internal antenna and an external antenna for the radio

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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# 2. Claims 4-7, 10, 12, 13, 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuisma in view of Postma (US 2002/0172336).

As to claim 4, Kuisma teaches the access point according to claim 1, Kuisma fails to teach further communications over the first frequency band utilize 802.11a technology, communications over the second frequency band utilize one of 802.11b and 802.11g technology, and wherein when communications over the first frequency band utilize one of the 802.11b and 802.11g technology, communications over the second frequency band utilize the 802.11a technology. Postma teaches communications over the first frequency band utilize 802.11a technology, communications over the second frequency band utilize one of 802.11b and 802.11g technology, and wherein when communications over the first frequency band utilize one of the 802.11b and 802.11g technology, communications over the second frequency band utilize the 802.11a technology (paragraph 52). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Postma into the system of Kuisma in order to enhance the system performance of the radio composable of the separate module.

As to claim 5, Postma teaches the access point according to claim 1, wherein when the removable module is inserted into the slot, the second radio establishes an electrical connection with a circuitry of the housing (figure 4, 110).

As to claim 6, Postma teaches the access point according to claim 5, wherein the second radio establishes the connection with the circuitry using a parallel connection (figure 4, 110, 210).

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As to claim 7 Postma teaches the access point according to claim 1, further comprising: a plurality of first antenna connectors connected to the first radio, wherein the module includes a plurality of the second antenna connectors connected to the second radio (figure 2, 168, 170).

As to claim 10, Postma teaches the access point according to claim 1, wherein when the removable module is inserted into the slot, a circuitry of the housing performs an initialization procedure to initiate utilization of resources of the removable module (figure 4).

As to claim 12, Postma teaches the access point according to claim 11, wherein the first module is permanently mounted in the first slot (figure 4).

As to claim 13, Postma teaches the access point according to claim 11, wherein when communications over the first frequency band utilize 802.11a technology, communications over the second frequency band utilize one of 802.11b and 802.11g technology, and wherein when communications over the first frequency band utilize one of the 802.11b and 802.11g technology, communications over the second frequency band utilize the 802.11a technology.

As to claim 19, Postma teaches the access point according to claim 18, further comprising: a further module selectively insertable into and removable from the slot, the module including a further radio communicating with a further wireless device utilizing a second frequency band, wherein the further module inserted into the slot, the access point communicate using at least one of the first and second frequency bands (figure 4 and its description).

As to claim 20, Postma teaches the access point according to claim 19, wherein when communications over the first frequency band utilize 802.11a technology, communications over the second frequency band utilize one of 802.11b and 802.11g technology, and wherein when communications over the first frequency band utilize one of the 802.11b and 802.11g technology, communications over the second frequency band utilize the 802.11a technology (paragraph 52).

As to claim 21, Postma teaches the access point according to claim 16, wherein when the module is inserted into the slot, a circuitry of the housing performs an initialization procedure to initiate utilization of resources of the module (figure 4, 110, 210).

## 3. Claims 2, 3, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuisma and Postma in view of Griffin (US 2004/0063456).

As to claim 2, Postma teaches the access point according to claim 1, wherein the housing include at least receiving slot and the removable module which has a shape substantially similar to the shape of the insert-able module, and wherein when the removable module is inserted into the slot, Postma fails to teach the cover is removed and the slot is covered with the further cover. Griffin teaches the cover is removed and the slot is covered with the further cover (figure 11). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Griffin into the system of Kuisma and Postma in order to cover the second module.

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As to claim 3, the combination of Postma and Griffin teaches an access point according to claim 2, wherein the housing, the cover and the further cover are composed of substantially the same material (Griffin, paragraph 44).

As to claim 17, the limitation of the claim is the same limitation of claim 2; therefore, the claim is interpreted and rejected as set forth as claim 2.

## SET II

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

# 4. Claims 1, 11, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Postma (US 2002/0172336) in view of Kim (US 2003/0082097).

As to claim 1, Postma teaches an access point for wireless communication (figures 3, 4 and their description), comprising:

a housing (200) including at least one module receiving slot (230) and a first wireless communication radio, the first radio communicating with a first wireless device utilizing a first frequency band (figure 1, 200); and

a removable module (100) configured for insertion into the module receiving slot (230), the module including a second communication radio utilizing a second frequency band.

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Postma fails to teach when the removable module is inserted into the slot the access point is capable of communicating with a second wireless device utilizing at least one of the first and second frequency bands. Kim teaches when the removable module is inserted into the slot the access point is capable of communicating with a second wireless device utilizing at least one of the first and second frequency bands (paragraph 011). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Kim into the system of Postma in order to provide high speed data rate service.

As to claim 11, Postma teach a wireless access point (figures 1, 4 and their descriptions), comprising:

a first module (figure 1, 100) including a first wireless communication radio communicating utilizing a first frequency band (300); and

a housing (figure 4 and paragraph 44) including first and second receiving slots, the first module being mounted in a first receiving slot of the housing, the second receiving slot being capable of receiving a second removable module, the second module including a second wireless radio communicating utilizing a second frequency band.

Postma fails to teach when the removable module is inserted into the slot the access point is capable of communicating with a second wireless device utilizing at least one of the first and second frequency bands. Kim teaches when the removable module is inserted into the slot the access point is capable of communicating with a second wireless device utilizing at least one of the first and second frequency bands

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(paragraph 011). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Kim into the system of Postma in order to provide high speed data rate service.

As to claim 16, the claim is an apparatus claim of claim 1; therefore, the claim is interpreted and rejected as set forth as claim 1.

## Allowable Subject Matter

Claims 8, 9, 14, 15 are objected in previous Office Action.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANH C. LE whose telephone number is 571-272-7868. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM TROST can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January, 30 2007

DANH LE

TIM RY EXAMINER